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 1 [Implementation and performance measurements of a delay-bounded HPD algorithm in an ALTQ-based router](#)


Johanna Nieminen, Marko Luoma, Antti Paju

 October CoNEXT '05: Proceedings of the 2005 ACM conference on Emerging  
2005 network experiment and technology

**Publisher:** ACM

 Full text available: [pdf\(562.61](#)
[KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we show the first working implementation of an adaptive, measurement-based scheduling algorithm called delay-bounded hybrid proportional delay (DBHPD) in a FreeBSD based ALTQ prototype router. We describe how we have implemented DBHPD and ...


**Keywords:** adaptive scheduling, implementation, measurements

## 2 [Performance bonds for flow control protocols](#)

Rajeev Agrawal, Rene L. Cruz, Clayton Okino, Rajendran Rajan

June 1999 IEEE/ ACM Transactions on Networking (TON), Volume 7 Issue 3

**Publisher:** IEEE Press

Full text available:  [pdf\(298.23 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Keywords:** adaptive service, burstiness, delay, guaranteed service, network calculus, queueing, regulator, scheduler, service curve


## 3 [Performance aware tasking for environmentally powered sensor networks](#)



Aman Kansal, Dunny Potter, Mani B. Srivastava

June 2004 ACM SIGMETRICS Performance Evaluation Review, Volume 32 Issue 1

**Publisher:** ACM

Full text available:  [pdf\(384.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The use of environmental energy is now emerging as a feasible energy source for embedded and wireless computing systems such as sensor networks where manual recharging or replacement of batteries is not practical. However, energy supply from environmental ...

**Keywords:** energy harvesting, performance guarantees, process scheduling


## 4 [Ensuring the QoS requirements in 802.16 scheduling](#)



Alexander Sayenko, Olli Alanen, Juha Karhula, Timo Hämäläinen

October 2006 MSWiM '06: Proceedings of the 9th ACM international symposium on Modeling analysis and simulation of wireless and mobile systems

**Publisher:** ACM

Full text available:  [pdf\(567.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

IEEE 802.16 standard defines the wireless broadband access network technology called WiMAX. WiMAX introduces several interesting advantages, and one of them is the support for QoS at the MAC level. For these purposes, the base station must allocate slots ...

**Keywords:** NS-2, QoS, WiMAX, scheduling

## 5 Performance aware tasking for environmentally powered sensor networks



Aman Kansal, Dunny Potter, Mani B. Srivastava

June SIGMETRICS '04/ Performance '04: Proceedings of the joint international conference on Measurement and modeling of computer systems

**Publisher:** ACM

Full text available:  [pdf\(384.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

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The use of environmental energy is now emerging as a feasible energy source for embedded and wireless computing systems such as sensor networks where manual recharging or replacement of batteries is not practical. However, energy supply from environmental ...

**Keyw ord s:** energy harvesting, performance guarantees, process scheduling


## 6 Power management in energy harvesting sensor networks



Aman Kansal, Jason Hsu, Sadaf Zahedi, Mani B. Srivastava

September ACM Transactions on Embedded Computing Systems (TECS), 2007 Volume 6 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(1.09 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Power management is an important concern in sensor networks, because a tethered energy infrastructure is usually not available and an obvious concern is to use the available battery energy efficiently. However, in some of the sensor networking applications, ...

**Keyw ord s:** Adaptive duty cycling, Helimote, energy neutrality, lifetime, power management



## 7 Exploiting perception in high-fidelity virtual environments



**Additional presentations from the 24th course are available on the citation page**

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez  
July SIGGRAPH '06: ACM SIGGRAPH 2006 Courses  
2006

**Publisher:** ACM

Full text available:  [pdf\(5.07 MB\)](#)  [mov\(68.6 MB\)](#)

Additional Information: [full citation](#), [appendices and](#)

[supplements](#), [abstract](#),


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[terms](#)


The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

**Keywords:** collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

## 8 Real-time shading

 Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost  
August SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes  
2004


**Publisher:** ACM

Full text available:  [pdf\(7.39 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [cited by](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering ...

## 9 Parallel execution of prolog programs: a survey

 Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo  
July ACM Transactions on Programming Languages and Systems (TOPLAS),  
2001 Volume 23 Issue 4

**Publisher:** ACM

Full text available:  [pdf\(1.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, ...

**Keywords:** Automatic parallelization, constraint programming, logic programming, parallelism, prolog

10 [pClock: an arrival curve based approach for QoS guarantees in shared storage](#)



[systems](#)

Ajay Gulati, Arif Merchant, Peter J. Varman

June 2007 SIGMETRICS '07: Proceedings of the 2007 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

**Publisher:** ACM

Full text available: [pdf\(300.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Storage consolidation is becoming an attractive paradigm for data organization because of the economies of sharing and the ease of centralized management. However, sharing of resources is viable only if applications can be isolated from each other. This ...

**Keywords:** QoS, burst handling, fair scheduling, real time guarantees, resource allocation, storage performance virtualization

11 [Measurement-based admission control with aggregate traffic envelopes](#)

Jingyu Qiu, Edward W. Knightly

April 2001 IEEE/ ACM Transactions on Networking (TON), Volume 9 Issue 2

**Publisher:** IEEE Press

Full text available: [pdf\(200.91 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Keywords:** admission control, quality of service, real-time flows, traffic envelopes

12 [Integrated services packet networks with mobile hosts: architecture and performance](#)

Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya

March 1999 Wireless Networks, Volume 5 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available: [pdf\(247.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper considers the support of real-time services to mobile users in an Integrated Services Packet Network. In the currently existing architectures, the service guarantees provided to the mobile hosts are mobility dependent, i.e., mobile hosts experience ...

**13** [Generalized guaranteed rate scheduling algorithms: a framework](#)

Pawan Goyal, Harrick M. Vin

August IEEE/ ACM Transactions on Networking (TON), Volume 5 Issue 4  
1997

**Publisher:** IEEE Press

Full text available:  [pdf\(370.57 KB\)](#)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

**Keywords:** computer networks, packet scheduling

**14** [pClock: an arrival curve based approach for QoS guarantees in shared storage systems](#)



Ajay Gulati, Arif Merchant, Peter J. Varman

June ACM SIGMETRICS Performance Evaluation Review, Volume 35 Issue 1  
2007

**Publisher:** ACM

Full text available:  [pdf\(300.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Storage consolidation is becoming an attractive paradigm for data organization because of the economies of sharing and the ease of centralized management. However, sharing of resources is viable only if applications can be isolated from each other. This ...

**Keywords:** QoS, burst handling, fair scheduling, real time guarantees, resource allocation, storage performance virtualization

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